As part of the German government's artificial intelligence (AI) strategy, the successful Saxon competence center ScaDS.AI Dresden/Leipzig (Center for Scalable Data Analytics and Artificial Intelligence) is being expanded into a leading German AI competence center for Big Data and Artificial Intelligence (AI). TUD Dresden University of Technology embodies a university culture that is characterized by cosmopolitanism, mutual appreciation, thriving innovation and active participation. For TUD diversity is an essential feature and a quality criterion of an excellent university. Accordingly, we welcome all applicants who would like to commit themselves, their achievements and productivity to the success of the whole institution.

At the **Center for Interdisciplinary Digital Sciences (CIDS),** the **Center for Scalable Data Analytics and Artificial Intelligence (ScaDS.AI Dresden)** offers a full-time position as

Research Associate / PhD Student / Postdoc (m/f/x)
(subject to personal qualification employees are remunerated according to salary group E 13 TV-L)

starting at the **next possible date.** The position is limited until December 31, 2028 with the option of extension. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). The position aims at obtaining further academic qualification (usually PhD).

Professional assignment: Chair of Knowledge-Aware Artificial Intelligence (Prof. Dr. Simon Razniewski)

Research area: Exploring the potential of LLM-supported mobility planning

This position is offered in collaboration with the *Collaborative Research Center (CRC) "Data-driven agile planning for responsible mobility" (AgiMo)*, funded by the German Research Foundation (DFG). This interdisciplinary center, involving four universities and the German Aerospace Centre (DLR), will conduct research on 20 research topics with 25 PhD candidates within the next years.

The position comes with access to high performance computing resources and access to training opportunities within ScaDS.AI.

Tasks:

- foundational and applied research in LLMs for traffic engineering, with particular focus on mobility knowledge benchmarking, simulation of human mobility behavior, simulation of mobility networks, estimation of acceptance of mobility policies
- preparation of publications for submission to top-tier NLP, AI, or traffic engineering venues
- contribution to teaching and/or local BSc. /MSc. thesis supervision

Requirements:

- university degree in Computer Science, Traffic Engineering, Computational Linguistics, Mathematics, or a related field
- solid knowledge in one of the relevant research areas
- excellent programming skills are desired
- strong interest in basic research
- very good written and spoken English skills

What we offer:

- **Pioneering Research Environment:** Shape the future of data-driven transport planning and management through the involvement in collaborative research.
- **Cross-Disciplinary Collaboration:** Immerse yourself in a highly collaborative and interdisciplinary research environment, where you'll work alongside experts from fields such as transport and urban planning, engineering, data science, computer science.

- **Skill Development:** Our extensive qualification concept goes beyond research, offering targeted training in research methods, project management, and leadership skills. This ensures you graduate not only as a specialist in your field but also as a well-rounded professional.
- **Global Networking:** Collaborate with our network of local and international partners, fostering connections that transcend geographical boundaries and enrich your academic and professional network. This includes a paid research stay abroad for three months.
- **Career Advancement:** Receive dedicated support for fellowship applications and tailored guidance for your career.
- **Quality of Life in Dresden:** Experience a high quality of life in Dresden, with its dynamic urban scene, relatively affordable living, rich cultural offerings, and vibrant nightlife.

TUD strives to employ more women in academia and research. We therefore expressly encourage women to apply. The University is a certified family-friendly university. We welcome applications from candidates with disabilities. If multiple candidates prove to be equally qualified, those with disabilities or with equivalent status pursuant to the German Social Code IX (SGB IX) will receive priority for employment.

Please submit your detailed application including the usual documents (Cover letter, CV, copies of your references and certificates), quoting the **job number "w25-231 ScaDS.AI Prof. Razniewski",** by **October 23, 2025** (stamped arrival date of the university central mail service or the time stamp on the email server of TUD applies) to: **TU Dresden, ScaDS.AI, Prof. Dr. Simon Razniewski, Helmholtzstr. 10, 01069 Dresden, Germany** or via the TUD SecureMail Portal https://securemail.tu-dresden.de by sending it as a **single pdf file** to **jobs-scads.ai@tu-dresden.de**. Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

Reference to data protection: Your data protection rights, the purpose for which your data will be processed, as well as further information about data protection is available to you on the website: https://tu-dresden.de/karriere/datenschutzhinweis.